

Form PTO-1449
(REV. 7-80)

69861

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
GP-100.C1SERIAL NO.
08/860,844

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

APPLICANT(S): Susan Weininger, Authur M. Weininger

FILING DATE
June 9, 1997GROUP
1655

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	AA	4	5	5	6	6	4	3	12/3/85	Paau et al.	436	501	
AM	AB	4	6	8	3	1	9	5	7/28/87	Mullis et al.	435	6	
AM	AC	4	7	7	5	6	1	9	10/4/88	Urdea	435	6	
AM	AD	4	7	9	4	0	7	5	12/27/88	Ford et al.	435	6	
AM	AE	4	8	6	8	1	0	5	9/19/89	Urdea et al.	435	6	
AM	AF	4	9	6	0	6	9	1	10/2/90	Gordon et al.	435	6	
AM	AG	5	0	9	6	8	1	5	3/17/92	Ladner et al.	435	69.1	
AM	AH	5	1	1	8	6	0	5	6/2/92	Urdea	435	6	
AM	AI	5	1	2	2	6	0	0	6/16/92	Kawaguchi et al.	536	27	
AM	AJ	5	1	2	4	2	4	6	6/23/92	Urdea et al.	435	6	
AM	AK	5	1	9	8	3	4	6	3/30/93	Ladner et al.	435	69.1	

FOREIGN PATENT DOCUMENTS

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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
		YES	NO											
AM	AL	8	8	0	6	6	0	1	9/7/88	PCT				
AM	AM	9	4	1	7	0	8	7	8/4/94	PCT				
AM	AN	0	4	5	3	3	0	1	10/23/91	EPO				
AM	AO	9	3	2	0	2	3	3	10/14/93	PCT				
AM	AP	9	3	1	5	2	2	6	8/5/93	PCT				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR		Keller, G.H., M.M. Manak (1989) DNA Probes, Stockton Press, pages v-xiii, 192-210, 215-230.										
AM	AS		Ptashne, M., A.D. Johnson, C.O. Pabo (1982) "A Genetic Switch in a Bacterial Virus" Scientific American 247(5):128-140.										
AM	AT		Ghosh, S. et al. (1990) "Cloning of the p50 DNA Binding Subunit of NF-KB: Homology to re/ and dorsal" Cell 62:1019-1029.										

EXAMINER

Adi Manohar

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AM	AB	5	2	1	5	8	8	2	6/1/93	Bahl et al.	435	6	
AM	AC	5	2	1	5	8	9	9	6/1/93	Dattagupta	435	6	
AM	AD	5	2	9	0	6	7	7	3/1/94	Robertson et al.	435	5	
AM	AE	5	3	0	6	6	1	4	4/26/94	Alizon et al.	435	5	
AM	AF	5	3	0	6	6	1	9	4/26/94	Edwards et al.	435	6	
AM	AG	5	3	1	0	6	5	0	5/10/94	McMahon et al.	435	6	
AM	AH	5	3	2	4	8	2	9	6/28/94	Bahl et al.	536	23.1	
AM	AI	4	8	8	2	2	6	9	11/21/89	Schneider et al.	435	6	
AM	AJ	4	7	5	1	1	7	7	6/14/88	Stabinsky	435	6	
AM	AK	4	9	4	8	8	8	2	8/14/90	Ruth	536	27	

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AM	AN	0	3	5	7	3	3	6	3/7/90	EPO				
AM	AO	0	1	4	6	0	3	9	6/26/85	EPO				
AM	AP	0	4	5	0	5	9	4	10/9/91	EPO				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR		Baldwin, A.S. Jr. et al. (1991) "Induction of NF- κ B DNA-Binding Activity during the G ₀ -to-G ₁ Transition in Mouse Fibroblasts" Molecular and Cellular Biology 11(10):4943-4951.										
AM	AS		Rosin, H. (1994) "Bad Blood" in The New Republic, June 27, page 12.										
AM	AT		Taylor, I. (1994) "Johnson & Johnson leads race for over-the-counter HIV test" Newark Star Ledger, July 24.										

EXAMINER

John Maschke

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AM	AE	9 3 0 0 4 4 6	1/7/93	PCT			
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
AM	AF	Haugen, T.H. <i>et al.</i> (1987) "Trans-activation of an upstream early gene promoter of bovine papilloma virus-1 by a product of the viral E2 gene" The EMBO Journal 6(1):145-152.					
AM	AG	Spalholz, B.A. <i>et al.</i> (1987) "Bovine Papillomavirus Transcriptional Regulation: Localization of the E2-Responsive Elements of the Long Control Region" Journal of Virology 61(7):2128-2137.					
AM	AH	Spalholz, B.A. Y.-C., Yang, P.M. Howley (1985) "Transactivation of a Bovine Papilloma Virus Transcriptional Regulatory Element by the E2 Gene Product" Cell 42:183-191.					
AM	AI	Jones, K.A., P.A. Luciw, N. Duchange (1988) "Structural arrangements of transcription control domains within the 5'-untranslated leader regions of the HIV-1 and HIV-2 promoters" Genes & Development 1101-1114.					
AM	AJ	Wu, F.K., J.A. Garcia, D. Harrish, R.B. Gaynor (1988) "Purification of the human immunodeficiency virus type 1 enhancer and TAR binding proteins EBP-1 and UBP-1" The EMBO Journal 7(7):2117-2129.					
AM	AK	Sodroski, J. <i>et al.</i> (1985) "Location of the Trans-Activating Region on the Genome of Human T-Cell Lymphotropic Virus Type III" Science 229:74-77.					
AM	AL	Arya, S.K. <i>et al.</i> (1985) "Trans-Activator Gene of Human T-Lymphotropic Virus Type III (HTLV-III)" Science 229:69-72.					
EXAMINER Arthur Marshall				DATE CONSIDERED 11-8-99			
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AM	AD	0 1 4 7 6 6 5	7/10/85	EPO				
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AM	AF	Berg, J.M. (1986) "Potential Metal-Binding Domains in Nucleic Acid Binding Proteins" Science 232:485-487.
AM	AG	Lambert, P.F., B.A. Spalholz, P.M. Howley (1987) "A Transcriptional Repressor Encoded by BPV-1 Shares a Common Carboxy-Terminal Domain with the E2 Transactivator" Cell 50:69-78.
AM	AH	Lenardo, M.J. et al. (1989) "The Involvement of NF- κ B in β -Interferon Gene Regulation Reveals Its Role as Widely Inducible Mediator of Signal Transduction" Cell 57:287-294.
AM	AI	Hiscott, J. et al. (1989) "Induction of Human Interferon Gene Expression is Associated with Nuclear Factor that Interacts with the NF- κ B Site of the Human Immunodeficiency Virus Enhancer" Journal of Virology 63(6):2557-2566.
AM	AJ	Perkins, N.D. et al. (1993) "A cooperative interaction between NF- κ B and Sp1 is required for HIV-1 enhancer activation" The EMBO Journal 12(9):3551-3558.
AM	AK	Franzoso, G. et al. (1993) "The oncoprotein Bcl-3 can facilitate NF- κ B-mediated transactivation by removing inhibiting p50 homodimers from select κ B sites" The EMBO Journal 12(10):3893-3901.
AM	AL	Kim, Y. et al. (1993) "Crystal structure of a yeast TBP/TATA-box complex" Nature 365:512-521.

EXAMINER

Adam Marshall

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AM	AF	Kadonaga, J.T. <i>et al.</i> (1987) "Isolation of cDNA Encoding Transcription Factor Sp1 and Functional Analysis of the DNA Binding Domain" Cell 51:1079-1090.					
AM	AG	Courey, A.J., R. Tijan (1988) "Analysis of Sp1 In Vivo Reveals Multiple Transcriptional Domains, Including a Novel Glutamine-Rich Activation Motif" Cell 55:887-898.					
AM	AH	Urban, M.B., R. Schreck, P.A. Baeuerle (1991) "NF-κB contacts DNA by a heterodimer of the p50 and p65 subunit" The EMBO Journal 10(7):1817-1825.					
AM	AI	Kunsch, C., S.M. Ruben, C.A. Rosen (1992) "Selection of Optimal κB/Rel DNA-Binding Motifs: Interaction of Both Subunits of NF-κB with DNA is Required for Transcriptional Activation" Molecular and Cellular Biology 12(10):4412-4421.					
AM	AJ	Ikeda, T., K. Honjo, Y. Hirota, T. Onodera (1993) "Isolation of the chicken NF-κB p65 subunit-encoding cDNA and characterization of its products" Gene 133:237-242.					
AM	AK	Matthews, J.R. <i>et al.</i> (1993) "Rate of cysteine ₆₂ in DNA recognition by the P50 subunit of NF-κB" Nucleic Acids Research 21(8):1727-1734.					
AM	AL	Beg, A.A. <i>et al.</i> (1992) IκB interacts with the nuclear localization sequences of the subunits of NF-κB: a mechanism for cytoplasmic retention" Genes & Development 6:1899-1913.					
EXAMINER <i>Ardi Maslul</i>				DATE CONSIDERED 11-8-99			
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AM	AF	Jones, K.A., J.T. Kadonaga, P.A. Luciw, R. Tijan (1986) "Activation of the AIDS Retrovirus Promoter by the Cellular Transcription Factor, Sp1" Science 232:755-759.					
AM	AG	Mukaida, N., Y. Mahe, K. Matsushima (1990) "Cooperative Interaction of Nuclear Factor- κ B and <i>cis</i> -Regulatory Enhancer Binding Protein-like Factor Binding Elements in Activating the Interleukin-8 Gene by Pro-inflammatory Cytokines" The Journal of Biological Chemistry 265(34):21128-21133.					
AM	AH	McBride, A.A., R. Schlegel, P.M. Howley (1988) "The carboxy-terminal domain shared by the bovine papillomavirus E2 transactivator and repressor proteins contains a specific DNA binding activity" The EMBO Journal 7(2):533-539.					
AM	AI	Henkel, T. <i>et al.</i> (1992) "Intramolecular Masking of the Nuclear Location Signal and Dimerization Domain in the Precursor for the p50 NF- κ B Subunit" Cell 68:1121-1133.					
AM	AJ	Matsusaka, T. <i>et al.</i> (1993) "Transcription factors NF-IL6 and NF- κ B synergistically activate transcription of the inflammatory cytokines, interleukin 6 and interleukin 8" Proc. Natl. Acad. Sci. USA 90:10193-10197.					
AM	AK	Margolis, D.M., A.B. Rabson, S.E. Straus, J.M. Ostrove (1992) "Transactivation of the HIV-1 LTR by HSV-1 Immediate-Early Gens' Virology 186:788-791.					
AM	AL	Grimm, S., P.A. Baeuerle (1993) "The inducible transcription factor NF- κ B: structure-function relationship of its protein subunits" Biochem. J.					
EXAMINER <i>Arden Mansley</i>				DATE CONSIDERED 11-8-99			
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AM	AF	American Society of Clinical Pathologists (1989) "The Abbott IMx" Laboratory Medicine 20(1):47-49.					
AM	AG	Harrison, S.C., A.K. Aggarwal (1990) "DNA Recognition by Proteins with the Helix-Turn-Helix Motif" Annu. Rev. Biochem. 59:933-969.					
AM	AH	Anderson, W.F., D.H. Ohlendorf, Y. Takeda, B.W. Matthews (1981) "Structure of the cro repressor from bacteriophage λ and its interaction with DNA" Nature 290:754-758.					
AM	AI	Baker, C.C., P.M. Howley (1987) "Differential promoter utilization by the bovine papillomavirus in transformed cells and productively infected wart tissues" The EMBO Journal 6(4):1027-1035.					
AM	AJ	Baker, C.C. <i>et al.</i> (1987) "Structural and Transcriptional Analysis of Human Papillomavirus Type 16 Sequences in Cervical Carcinoma Cell Lines" Journal of Virology 61(4):962-971.					
AM	AK	Phelps, W.C., P.M. Howley (1987) "Transcriptional <i>trans</i> -Activation by the Human Papillomavirus Type 16 E2 Gene Product" Journal of Virology 61(5):1630-1638.					
AM	AL	Schwarz, E. <i>et al.</i> (1985) "Structure and transcription of human papillomavirus sequences in cervical carcinoma cells" Nature 314:111-114.					
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AM	AF	Yee, C. <i>et al.</i> (1985) "Presence and Expression of Human Papillomavirus Sequences in Human Cervical Carcinoma Cell Lines" Am. J. Pathol. 119:361-366.					
AM	AG	McBride, A.A., H. Romanczuk, P.M. Howley (1991) "The Papillomavirus E2 Regulatory Proteins" The Journal of Biological Chemistry 266(28):18411-18414.					
AM	AH	Kerr, L.D. <i>et al.</i> (1993) "Association between protp-oncoprotein Rel and TATA-binding protein mediates transcriptional activation by NF- κ B" Nature 365:412-419.					
AM	AI	Kim, J.L., D.B. Nikolov, S.K. Burley (1993) "Co-crystal structure of TBP recognizing the minor groove of a TATA element" Nature 365:520-527.					
AM	AJ	Kim, Y., J.H. Geiger, S. Hahn, P.B. Sigler (1993) "Crystal structure of a yeast TBP/TATA-box complex" Nature 365:512-517.					
AM	AK	Northrop, J.P. <i>et al.</i> (1994) "NF-AT components define a family of transcription factors targeted in T-cell activation" Nature 369:497-502.					
AM	AL	Kadonaga, J.T., K.R. Carner, F.R. Masiarz, R. Tjian (1987) "Isolation of cDNA Encoding Transcription Factor Sp1 and Functional Analysis of the DNA Binding Domain" Cell 51:1079-1090.					
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AM	AG	Gill, G., E. Pascal, Z.H. Tseng, R. Tjian (1994) "A glutamine-rich hydrophobic patch in transcription factor Sp1 contacts the dTAF _{II} 110 component of the <i>Drosophila</i> TFIID complex and mediates transcriptional activation" Proc. Natl. Acad. Sci. USA 91:192-196.					
AM	AH	Ptashne, M. (1989) "How Gene Activators Work" Scientific American, January 40-47.					
AM	AI	Hochschild, A., M. Ptashne (1986) "Cooperative Binding of λ Repressors to Sites Separated by Integral Turns of the DNA Helix" Cell 44:681-687.					
AM	AJ	Antoni, B.A. <i>et al.</i> (1994) "NF- κ B-Dependent and -Independent pathways of HIV Activation in a Chronically Infected T Cell Line" Virology 202:684-694.					
AM	AK	Musso, T. <i>et al.</i> (1994) "LPS-inducible nuclear factor in human monocytes that binds the negative regulatory element of the HIV LTR" Journal of Leukocyte Biology 56:21-26.					
AM	AL	Koken, S.E.C. <i>et al.</i> (1992) "Natural Variants of the HIV-1 Long Terminal Repeat: Analysis of Promoters with Duplicated DNA Regulatory Motifs" Virology 191:968-972.					
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AM	AF	Harrich, D. J. Garcia, R. Mitsuyasu, R. Gaynor (1990) "TAR independent activation of the human immunodeficiency virus in phorbol ester stimulated T lymphocytes" The EMBO Journal 9:4417-4423.					
AM	AG	Tong-Starksen, S.E., P.A. Luciw, B.M. Perlin (1987) "Human immunodeficiency virus long terminal repeat responds to T-cell activation signals" Proc. Natl. Acad. Sci. USA 84:6845-6849.					
AM	AH	Danheiser, S.L. (1994) "bDNA Assay Allows Monitoring of Virus Load in HIV and HCV" Genetic Engineering News 14(18):1,27.					
AM	AI	Hoffmann, A. <i>et al.</i> (1990) "Highly conserved core domain and unique N terminus with presumptive regulatory motifs in a human TATA factor (TFIID)" Nature 346:387-396.					
AM	AJ	Peterson, M.G., N. Tanese, B. F. Pugh, R. Tjian (1990) "Functional Domains and Upstream Activation Properties of Cloned Human TATA Binding Protein" Science 1624-1630.					
AM	AK	Zabel, U. <i>et al.</i> (1993) "Nuclear uptake control of NF- κ B by MAD-3, an I κ B protein present in the nucleus" The EMBO Journal 12(1):201-211.					
AM	AL	Nikolov, D.B. <i>et al.</i> (1992) "Crystal structure of TFIID TATA-box binding protein" Nature 360:40-46.					
EXAMINER Armin Marschel				DATE CONSIDERED 11-8-99			
<p><small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small></p>							

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INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANT(S): Susan Weininger, Arthur M. Weininger			
				FILING DATE June 9, 1997		GROUP 1655	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AD						
	AE						
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
AM	AF	Hegde, R.S., S.R. Grossman, L.A. Laimins, P.B. Sigler (1992) "Crystal structure at 1.7A of the bovine papillomavirus-1 E2 DNA-binding domain bound to its DNA target" Nature 359:505-512.					
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
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Ardin Marshall				11-8-99			
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